

WHAT IS CLAIMED IS:

1. A method for testing a device using a plurality of transactions for simulation, the method comprising the steps of:

providing a plurality of prime numbers;

5 associating each transaction of the plurality of transactions to a respective prime number of the plurality of prime numbers;

engaging each transaction to the device at a particular simulation time that is based on the associated prime number of each transaction; and

10 repeating the step of engaging for each transaction when the simulation time is an integer multiple its associated prime number.

2. The method of claim 1 wherein a portion of the plurality of transactions form a test case, and the step of engaging comprises the steps of:

looking up the test case in a table of test case entries;

locating a list of transactions associated with the test case;

5 looking up each transaction of the list of transaction in a table of transactions;

locating information associated with each transaction in the table; and

invoking a function for each transaction based on the information.

3. The method of claim 2 further comprising the step of:

invoking an emulator, via the function, to issue a command to the device based on the transaction.

4. The method of claim 1 wherein the step of repeating comprises the steps of:
storing the particular simulation time in a memory;

calculating a subsequent particular simulation time by adding the prime number to the particular simulation time; and

5 storing the subsequent particular simulation time after completion of the step of engaging.

5. The method of claim 1 further comprising the step of:

selecting the plurality of prime numbers as non-identical prime numbers from the integers between n_1 and n_2 ; wherein $n_2 > n_1$.

6. The method of claim 5 comprising the step of:

selecting the plurality of prime numbers from the integers between 100 and 400.

7. The method of claim 1 further comprising the step of:

incrementing a counter to represent the simulation time.

8. A system for testing a device using a plurality of transactions for simulation comprising:

means for providing a plurality of prime numbers;

means for associating each transaction of the plurality of transactions to a respective
5 prime number of the plurality of prime numbers;

means for engaging each transaction to the device at a particular simulation time that is based on the associated prime number of each transaction; and

means for repeating the means for engaging for each transaction when the simulation time is an integer multiple its associated prime number.

9. The system of claim 8 wherein a portion of the plurality of transactions form a test case, and the means for engaging comprises:

means for looking up the test case in a table of test case entries and locating a list of transactions associated with the test case;

5 means for looking up each transaction of the list of transaction in a table of transactions and locating information associated with each transaction in the table; and

means for invoking a function for each transaction based on the information.

10. The system of claim 9 further comprising:

means for invoking an emulator, via the function, to issue a command to the device based on the transaction.

11. The system of claim 8 wherein the means for repeating comprises:

means for storing the particular simulation time in a memory;

means for calculating a subsequent particular simulation time by adding the prime number to the particular simulation time; and

5 means for storing the subsequent particular simulation time after operation of the means for engaging.

12. The system of claim 8 wherein:

the plurality of prime numbers are selected from non-identical prime numbers between the integers between $n1$ and $n2$; wherein $n2 > n1$.

13. The system of claim 12 wherein:

the plurality of prime numbers are selected from the integers between 100 and 400.

14. The system of claim 8 further comprising:

a counter to represent the simulation time.

15. A computer program product having a computer readable medium having computer program logic recorded thereon for testing a device using a plurality of transactions for simulation, the computer program product comprising:

code for providing a plurality of prime numbers;

5 code for associating each transaction of the plurality of transactions to a respective prime number of the plurality of prime numbers;

code for engaging each transaction to the device at a particular simulation time that is based on the associated prime number of each transaction; and

code for repeating the means for engaging for each transaction when the simulation
10 time is an integer multiple its associated prime number.

16. The computer program product of claim 15 wherein a portion of the plurality of transactions form a test case, and the code for engaging comprises:

code for looking up the test case in a table of test case entries and locating a list of transactions associated with the test case;

5 code for looking up each transaction of the list of transaction in a table of transactions and locating information associated with each transaction in the table; and

code for invoking a function for each transaction based on the information.

17. The computer program product of claim 16 further comprising:

code for invoking an emulator, via the function, to issue a command to the device based on the transaction.

18. The computer program product of claim 15 wherein the means for repeating comprises:

code for storing the particular simulation time in a memory;

code for calculating a subsequent particular simulation time by adding the prime
5 number to the particular simulation time; and

code for storing the subsequent particular simulation time after operation of the code
for engaging.

19. The computer program product of claim 15 wherein:

the plurality of prime numbers are selected from non-identical prime numbers between
the integers between $n1$ and $n2$; wherein $n2 > n1$.

20. The computer program product of claim 19 wherein:

the plurality of prime numbers are selected from the integers between 100 and 400.